



PATENT ABSTRACTS OF JAPAN

(11) Publication number: **08193503 A**

(43) Date of publication of application: 30.07.96

(51) Int. Cl. **F01D 25/24**
F01D 25/12

(21) Application number: **07004828**

(71) Applicant: **MITSUBISHI HEAVY IND LTD**

(22) Date of filing: 17.01.95

(72) Inventor: **MASUZAWA CHIKANORI**

(54) STEAM TURBINE OUTER CHAMBER COOLING
DEVICE

shielding plate 11.

COPYRIGHT: (C)1996,JPO

(57) Abstract:

PURPOSE: To prevent reheated steam from being penetrated through an annular clearance, in a device in which cooling steam is introduced from the outside to the annular clearance surrounded by an outer turbine chamber and a heat shielding plate.

CONSTITUTION: This device is formed in such a manner that a heat shielding plate 11 to which the plural number of exhaust holes 16 are circumferentially arranged, are provided in an outer turbine chamber 10a, and cooling steam is introduced from the outside to an annular clearance 12 surrounded by the outer turbine chamber 10a and the heat shielding plate 11. The outlet side of the exhaust hole 16a arranged to the upper part of the heat shielding plate 11, out of the exhaust holes 16 of the heat shielding plate 11, is surrounded by a porous cylinder 17 having many passing holes. Reheated steam 6 introduced in an intermediate pressure stage inlet part 8, is prevented to be led to flow into the exhaust holes 16a by this porous cylinder 17 even though the reheated steam 6 reaches the upper part of the heat

